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BIENNIAL REPORT
OF THE
North Carolina Sanatorium
SANATORIUM, N. C.



FOR THE TWO YEARS ENDED JUNE 30, 1934

BIENNIAL REPORT
OF THE
North Carolina Sanatorium
SANATORIUM, N. C.



FOR THE TWO YEARS ENDED JUNE 30, 1934

PERSONNEL

BOARD OF DIRECTORS

DR. T. W. M. LONG, <i>Chairman</i>	Roanoke Rapids
MR. U. L. SPENCE, <i>Vice-Chairman</i>	Carthage
MR. W. E. HARRISON, <i>Secretary</i>	Rickingham
DR. D. R. PERRY	Durham
MR. W. R. WILLIAMS	Sanford
MR. JONAS OETTINGER	Wilson
MR. STAHLE LINN	Salisbury
MRS. MAX T. PAYNE	Greensboro
MR. J. R. McQUEEN	Aberdeen

P. P. MCCAIN, M. D.	Superintendent and Medical Director
S. M. BITTINGER, M. D.	Assistant Supt. and Assoc. Med. Director
J. H. WILLIAMS, M. D.	Assistant Physician
C. G. MILHAM, M. D.	Assistant Physician
ALBAN PAPINEAU, M. D.	Assistant Physician
MARTHA C. NEWMAN, R. N.	Superintendent of Nurses
MISS EFFIE WOODYE, R. N.	Assistant Superintendent of Nurses
W. L. WOODARD, D. D. S.	Dentist
H. L. SATTERWHITE	Laboratory and X-ray Technician
F. L. EUBANKS	Cashier and Purchasing Officer
J. B. WOMBLE	Steward
J. L. BEALL	Farm Superintendent
R. S. PERRY	Chief Engineer
CARRIE BROADFOOT, R. N.	Superintendent of Nurses, Colored Division

EXTENSION DEPARTMENT OF THE NORTH CAROLINA SANATORIUM FOR THE TREATMENT OF TUBERCULOSIS

P. P. MCCAIN, M. D.	Director
H. F. EASOM, M. D.	Clinic Physician
C. D. THOMAS, M. D.	Clinic Physician
W. F. THORNTON, M. D.	Clinic Physician

CONSULTING STAFF

DR. O. L. MILLER, <i>Orthopedic Surgeon</i>	Charlotte
DR. JULIAN A. MOORE, <i>Surgery</i>	Asheville
DR. J. D. HIGHSMITH, <i>Surgery</i>	Fayetteville
DR. C. R. MONROE, <i>Surgery</i>	Pinehurst
DR. DERYL HART, <i>Surgery</i> , Duke Hospital	Durham
DR. JAMES M. LILLY, <i>Eye, Ear, Nose and Throat</i>	Fayetteville
DR. WM. S. JORDAN, <i>Eye, Ear, Nose and Throat</i>	Fayetteville
DR. W. P. MCKAY, <i>Eye, Ear, Nose and Throat</i>	Fayetteville
DR. J. B. GREENE, <i>Laryngologist</i>	Asheville
DR. JAMES B. BULLITT, <i>Pathology</i>	Chapel Hill
DR. WM. DEB. MACNIDER, <i>Pharmacology</i>	Chapel Hill

LETTER OF TRANSMITTAL

To His Excellency,

GOVERNOR J. C. B. ERINGHAUS,

Raleigh, North Carolina.

SIR:

I have the honor to transmit herewith the report of the Superintendent of the operations of the North Carolina Sanatorium for the Treatment of Tuberculosis for the biennium ended June 30th, 1934.

The report of the Superintendent is accepted as the report of the Board of Directors.

Respectfully submitted,

T. W. M. LONG, *Chairman,*

Board of Directors.

REPORT OF SUPERINTENDENT

August 27, 1934.

DR. T. W. M. LONG, *Chairman,*
Board of Directors,
North Carolina Sanatorium,
Roanoke Rapids, N. C.

DEAR DR. LONG:

The Biennial Report of the North Carolina Sanatorium for the period ending June 30, 1934, is submitted herewith.

The work of the Extension Department is summarized and there are separate reports for each of the four divisions, White, Children, Colored and Prison.

During the first year of the biennium our average daily number of patients was 398.32, and for the second year 433.24. The total number of patients treated during the first year was 925, and 1,043 during the second year, and the total number of hospital days for the two years respectively 145,389 and 158,862.

There has been an increasing demand for the services of our three clinic physicians to conduct both adult and children's school clinics, so much so that we have not been able to keep up with the numerous requests. There has also been increasing interest in the services which we are offering to colleges to give the tuberculin test to their students and to X-ray the positive reactors. We find, too, that parents appreciate the opportunity of having the study of their children made, both in the schools and colleges, so much that a great majority of them are willing to pay for the X-ray films of the positive reactors. This is true, even of the colored population as well as of the white.

In our adult clinic work we find a tremendous need for X-ray equipment. Quite often the most careful physical examination will fail to reveal the presence of definite tuberculosis in the early cases and sometimes in the moderately advanced cases. The recently marketed greatly improved fluoroscopic screen will reveal chest pathology so clearly that we are hoping that we will be permitted to secure two portable fluoroscopes for the use of our clinicians.

We feel that our monthly paper, the *Sanatorium Sun*, is serving a most useful purpose in furnishing authoritative information on tuberculosis and in arousing interest in the disease. We are asking for a slight increase in our Extension Department appropriation for the next biennium because we are especially anxious to increase the circulation of the *Sanatorium Sun*, and especially anxious that we will be able to send it to all new reported cases of tuberculosis.

It is gratifying that in spite of the persistence of deplorable financial conditions the death rate from tuberculosis has continued to decline. During the calendar year of 1933, there were 2,103 deaths from all forms of tuberculosis in North Carolina with a death rate of 64.5 per 100,000 as compared with 2,200 deaths in 1932 and a death rate of 69. During the first seven months of 1934, however, the number of deaths has been practically the same as during the first seven months of 1933. This may indicate, as some believe, that we are just now beginning to reach the effects of the depression so far as tuberculosis is concerned and that the next few years will show an increase in the death rate.

We feel that hope for the control of the disease depends on making provision for the hospitalization of active cases and on increasing the facilities for a study of the contacts by tuberculin testing and by making physical and X-ray examinations of the positive reactors. We have been encouraging the counties to make provision for their advanced indigent tuberculous patients through the establishment of suitable units in connection with their county homes. Within the last two years a few of the counties have made such provision. We are urging such an arrangement for the present because we feel that it is not likely that any of the counties under the present financial conditions will be in a position to establish a first class county sanatorium for some years.

Since we are permitted to reduce our minimum charge to 50¢ per day the waiting list at our institution is so long that the patients have to wait from four to six months after filing application before they can be admitted. Oftentimes, patients' home conditions are such that hope for their improvement depends upon their early admission to a sanatorium. There is a tremendous need for additional sanatorium beds. We feel that it is the responsibility of the State to provide beds for the more

favorable cases and for the counties to provide beds for the less favorable cases who are unable to go to private institutions. Except for the addition of another wing to our colored building to accommodate sixty patients we feel that our present plant should not be enlarged, but that there should be established another sanatorium somewhere west of the central portion of the State. Such a location would make the institution more accessible both for diagnosis and treatment to the people in that section of the State. Our present plant has also reached the limit of its service units, heating, electric and water plants, so that there would be little difference in the cost of establishing a new institution elsewhere and adding to the present institution. It is greatly hoped that within the next two or three years such an institution can be provided.

A number of improvements have been made in our mechanical plant out of our maintenance appropriation for additions and betterments, which have made far more improved and also far more economical plant operation. The replacement of one of our smaller engines with our 180-h.p. Skinner Engine unit has given us a much more satisfactory electric current. The replacement of an electric with a coke bakeoven has also given us more economical and more satisfactory service. The installation of a turbine pump in one of our deep wells has enabled us to get a sufficient and much more satisfactory water supply from this source, enabling us to discard entirely the use of surface water. At the present time we are installing improved refrigerating machinery and we are moving our ice making unit to our main power plant so that its operation can be more satisfactorily supervised. We are greatly indebted to Mr. R. N. Rothgeb, Engineer for the Budget Bureau, for helping us to plan and effect these changes.

During the last year of the biennium we succeeded in getting some much needed improvements made to our lake amounting to a little over \$3,000.00 from the Federal C W A funds. We also secured approval of a request of \$5,000.00 from P W A funds toward the installation of automatic sprinkler systems in our infirmary and in our colored building. Plans and specifications for these installations are now being prepared and it is hoped that the contract can be let shortly. Requests were made for C W A funds for a number of other projects, one of which was for a wing to our colored building, but they were not granted.

In May, 1931, we had the misfortune to lose by fire the portion of our dairy barn which was not fire-proof. Fortunately no cattle were injured and there was sufficient insurance coverage to replace the barn in as good shape as it was before. The origin of the fire could not be determined, but it is probable that it was due to spontaneous combustion of the hay in the loft.

We are greatly in need of additional housing facilities for the members of our staff. The capacity of our institution has been increased more than 25% since making any provisions for additional staff quarters. We are so greatly crowded that living conditions for the staff are exceedingly unsatisfactory and we will not be able to continue to keep the well qualified specialists which are so necessary to the efficient operation of a modern tuberculosis institution unless more satisfactory quarters are provided. We greatly hope that the four physician residences and the two residences for other employees which are requested will be provided.

The most important other requests which we are making for permanent improvements are: a wing for our colored unit and a wing for our infirmary at our white unit. The wing at the colored building would provide for sixty additional patients, an elevator, an X-ray and an operating room and isolation rooms for very sick and dying patients. The wing for our infirmary would provide isolation rooms for sick and dying patients, modern operating room and other much needed facilities. When our present operating room was provided many years ago it was thought that tuberculous patients could have only very minor operations and that all operations should be avoided if possible. Within recent years, however, it has been found that surgery offers a great many patients their only chance for recovery and now from 65 to 70% of our adult patients are getting some form of compression therapy. Most of these are taking pneumothorax treatment. We now have more than 200 patients taking pneumothorax and their treatment has to be repeated on an average of every week or ten days. A great many patients who can't take pneumothorax on account of pleural adhesions need other operations, such as phrenicectomies, thoracoplasties and pneumolyses. Our present operating room and sterilizing room are not at all suitable for these operations and it is at present impossible for us to have thoracoplasties done at the institution. It is also very difficult for us to get our patients in other institutions for such operations because none of them can afford private

rooms and the hospital authorities are not willing to place them in the ward with other non-tuberculous patients. If we had a well-equipped operating room we would have no trouble in getting competent surgeons to come in and perform the major operations for us.

Under the capable supervision of Miss Martha C. Newman, Superintendent of Nurses, our training school for nurses has been greatly improved. We now have a standard three-year training school and have made arrangements with the Moore County Hospital, an excellent general hospital which is approved by the American College of Physicians, to take all of our students for their third year. Heretofore, we have had to depend upon placing them in three or four different hospitals and the arrangement was very unsatisfactory.

There have been few changes in our staff during the biennium. In October, 1932, Dr. J. S. Hooker resigned to engage in private practice at Chapel Hill, and in January, 1933, Dr. W. B. Hooks resigned to take up some special hospital work in Philadelphia. Dr. C. G. Milham and Dr. Alban Papineau were secured to take their respective places. Last fall we were all greatly shocked and grieved by the death from pneumonia of Mr. M. E. Rothgeb, our head engineer, following an operation for appendicitis. Mr. R. S. Perry, who had been with us for some years, was promoted to take his place.

To Dr. S. M. Bittinger, Assistant Superintendent and Associate Medical Director, and the other members of the medical staff, to the heads of all other departments and to all other employees of the institution I wish to express my deep appreciation for their hearty coöperation and loyalty. We are also deeply grateful to our many friends who have so generously provided entertainments and donated radio equipment, books, flowers and many other gifts. We especially wish to thank the Charlotte Film Board of Trade for the splendid cinema programs which they have furnished us each week without charge. For the splendid services which you and the other members of the Board have rendered the institution, oftentimes at great inconvenience and sacrifice, and for your kindly guidance and hearty support, I wish to express my deep appreciation.

Respectfully yours,

P. P. MCCAIN

*Superintendent and Director,
Extension Department.*

SUMMARY OF YEAR'S WORK

July 1, 1932—June 30, 1934

Extension Department

	1932-1933		1933-1934
Letters and postals received.....	17,185		17,563
Individual letters written.....	11,794		13,053
Mimeographed letters mailed.....	3,176		1,230
Mimeographed forms prepared.....	67		56
Number of copies mimeographed.....	78,093		121,991
Articles written (approx.-no-words):			
Press.....	11,420	14,390	
Other publications.....		5,300	
Sanatorium Sun.....	190,900	193,800	
	202,120		213,490
Copies Sanatorium Sun mailed.....	34,700		34,050
Articles copies (approx.-no-words).....	28,405		60,150
Patients histories written.....	542		550
Approximate number words in patients' histories.....	813,000		825,000
Envelopes addressed.....	20,993		18,945
Enclosures sent out.....	14,351		11,065
Blank cards mailed for reporting caes of tuberculosis.....	4,923		1,590
Number of cases reported:			
White.....	1,418	1,434	
Colored.....	1,099	912	
Indians.....	7	106	
	2,524		2,452
Literature sent to reported cases.....	1,328		1,140
Other literature sent.....	30,900		12,576
Sputum cups distributed.....	166,300		158,600
Tuberculin sent physicians for von Pirquet test.....	1,224		2,376
X-ray films sent in for interpretation.....	458		723
Report of phrenic operations.....	97		78
Report of scaleniotomy.....	3		

REPORT OF P. P. McCAIN, M. D.

	1932-1933	1933-1934
Days out of office.....	30	23
Addresses delivered.....	17	21
Number in audience.....	1,930	1,845

REPORT OF ADULT TUBERCULOSIS CLINICS

Drs. H. F. Eason, C. D. Thomas and W. F. Thornton, Clinic Physicians

	1932-1933	1933-1934	Total
Number of addresses delivered.....	8	4	12
Total audience.....	965	295	1,260
	1932-1933	1933-1934	
Number of positive cases.....	173	194	
Number of probable cases.....	99	122	
Number of doubtful cases.....	231	247	
Number of negative cases.....	1,474	1,594	
Number of ex-patients examined.....	227	249	
	2,204	2,406	4,610
Number of white examinations.....	1,962	2,003	
Number of colored examinations.....	242	403	
	2,204	2,406	4,610

REPORT OF CHILDREN'S TUBERCULOSIS CLINIC

Summary of Results of School Children's Tuberculosis Clinics Conducted
by the Extension Department of the North Carolina Sanatorium, in
Co-operation with Local Health and School Authorities, During
School Sessions 1926-1934

RESULT OF TUBERCULIN TEST

(0.1 c.c. 1:1000 dilution O. T. intracutaneously)

	White	Colored	Indian	Total
Number given tuberculin test.....	148,504	27,179	426	176,109
Number positive reactors.....	22,156(14.9%)	5,010(18.4%)	105(24.6%)	27,271(15.0%)

RESULTS OF THE STUDY OF THE 22,817 POSITIVE TUBERCULIN REACTORS HAVING X-RAYS

Number of reactors having X-rays of chest.....			22,817
Number of reactors diagnosed as having tuberculosis.....		2,767	
White.....	2,046		
Colored.....	690		
Indian.....	31		
Childhood type.....	2,504		
Adult type (parenchymal).....	149		
Childhood and adult type.....	80		
Extra-pulmonary.....	27		
Extra-pulmonary and adult type.....	6		
Extra-pulmonary and childhood type.....	1		
Number reactors classified as suspicious.....		2,710	
Number reactors classified as having no demonstrable tuberculosis.....		17,340	

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by the Extension Department of the North Carolina Sanatorium, in
Co-operation with Local Health and School Authorities, During
School Sessions 1932-33, and 1933-34

RESULT OF THE TUBERCULIN TEST

(0.1 c.c. 1:1000 dilution O. T. intracutaneously)

	White	Colored	Indian	Total
Number given tuberculin test.....	45,997	7,312	426	53,735
Number positive reactors.....	6,469(14.1%)	1,378(18.8%)	105(24.6%)	7,952(14.8%)

RESULT OF THE STUDY OF 6,720 REACTORS HAVING X-RAYS

RACE	No. Having X-Rays	POSITIVE		SUSPICIOUS		NEGATIVE	
		Number	%	Number	%	Number	%
White.....	5,425	652	12	596	11	4,177	77
Negro.....	1,190	189	15.9	118	9.9	883	74.2
Indian.....	105	31	29.6	26	24.6	48	45.8
Total.....	6,720	872	12.9	740	11	5,098	75.9

Childhood or primary type lesions.....	788
Adult or re-infection type lesions.....	47
Childhood and adult type lesions.....	31
Extra-pulmonary.....	5
Extra-pulmonary and childhood type lesions.....	1
Total.....	872

WHITE DIVISION

MEDICAL REPORT

July, 1932-July, 1934

Statistical

	1932-1933	1933-1934	Total
Number of patients to be reported on (discharged).....	250	312	562
Number not classified.....	2	1	3
Number not tuberculous.....	47	41	88
Number of patients in Sanatorium July 1.....	270	270	540
Total number of patients treated.....	569	624	1,193
Hospital days,.....	94,897	98,566	193,463

PATIENTS WHO STAYED LESS THAN NINETY DAYS
1932-1934

CONDITION ON ADMISSION				CONDITION ON DISCHARGE									
				Apparently Arrested		Quiescent		Improved		Unimproved		Died	
				1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934
				1932-33 1933-34		1932-33 1933-34		1932-33 1933-34		1932-33 1933-34		1932-33 1933-34	
Minimal.....				4	6	1	3	3	4				
				1	3			1	3				
Moderately Advanced.....								1	2	1			
								5	11	3	2		
Far Advanced.....													
								16	14	6	9		1
								2	1	8	8	1	
Childhood type.....									1				
Extra-pulmonary.....										1			
Total.....				5	10	1	3	28	36	18	20	1	1
Total number of days.....				1932-33 1933-34		1932-33 1933-34		1932-33 1933-34		1932-33 1933-34		1932-33 1933-34	
				2,378	2,930	42.98	41.86	Shortest stay					
Number gained weight: 1932-33 32: 1933-34 41				1932-33 1933-34		1932-33 1933-34		1932-33 1933-34		1932-33 1933-34		1932-33 1933-34	
				6.6	5.45	Average loss		Average loss		Average loss		Average loss	
				2	8	Not weighed		Not weighed		Not weighed		Not weighed	
Average gain.....				6.6	5.45	Average loss		Average loss		Average loss		Average loss	
Stationary.....				2	8	Not weighed		Not weighed		Not weighed		Not weighed	

Number lost weight: 1932-33 11: 1933-34 10

Average loss.
Not weighed

Average loss.
Not weighed

PATIENTS WHO STAYED NINETY DAYS OR OVER

1932-1934

CONDITION ON ADMISSION				CONDITION ON DISCHARGE									
				Apparently Arrested		Quiescent		Improved		Unimproved		Died	
				1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934
Minimal.....				7	13	2	3	2					
				3	4			1					
Moderately Advanced.....						5	8	6	4		2	1	
						33	33	30	33	7	3		
						3			1				
Far Advanced.....						1	2		1				
						13	9	46	83	9	11	1	1
								11	18	8	8	3	2
Childhood Type.....				5	2				1				
Total.....				15	19	57	55	96	141	24	24	5	3
Total number of days.....				Average stay.....		1932-33		1933-34		Longest stay.....		1932-33	1933-34
				70,398	100,661		357.3	415.99				1,554	2,304
Number gained weight: 1932-33 152; 1933-34 190				Number lost weight: 1932-33 34; 1933-34 40									
Average gain.....				1932-33	1933-34	Average loss.....		1932-33		1933-34		1932-33	1933-34
Stationary.....				11.66	14.68	Not weighed.....		6.1		5.98		6.1	5.98
				3	2			8		10		8	10

HISTORY OF HEMORRHAGE

Negative.....	147	178
Positive.....	95	112
{ Previous.....	7	19
{ Previous and during residence.....	1	3
{ During residence only.....		
	1932-33	1933-34

RESULT OF SPUTUM EXAMINATIONS

Negative or no sputum.....	106	147
{ On admission.....	123	143
{ During residence.....	92	96
{ On discharge.....	63	66
Positive.....		

SEX, AGE AND CIVIL CONDITION

[illegible]

TUBERCULOUS COMPLICATIONS

Adenitis (cervical)	5	Nepritis	1
Adenitis (tracheobronchial) ..	16	Orchitis	1
Anal fistula	13	Osteitis with ankylosis	3
Caseous pneumonia	1	Peritonitis	7
Cystitis	1	Pleural fistula	2
Enteritis	43	Pleurisy with effusion	21
Ischiorectal abscess	1	Pott's disease	3
Keratitis	1	Pyo-pneumothorax	2
Laryngitis	61		

NON-TUBERCULOUS COMPLICATIONS

Abscess (alveolar)	5	Laryngitis	1
Acne	7	Lues	6
Amputation of leg	1	Lumbago	1
Ankylosis	3	Mitral regurgitation	2
Anemia (secondary)	16	Myocarditis	3
Aortitis	1	Nephritis	6
Arteriosclerosis	4	Otitis media	19
Arthritis	4	Paralysis (partial)	1
Asthma (bronchial)	3	Pellagra	4
Atrophy of testicle	1	Pelvic cellulitis	3
Blindness (partial)	1	Pharyngitis	3
Blindness (total)	1	Pineworm infection	1
Bronchiectasis	13	Pneumonitis	2
Bronchitis	5	Prolapse of uterus	6
Carious teeth	75	Psychosis	1
Cholecystitis	2	Pterygium	3
Colitis	1	Pyelitis	1
Cystocele	4	Pyorrhea	101
Deafness (complete)	1	Rectocele	2
Deafness (partial)	7	Renal calculi	1
Diabetes mellitus	3	Retroflexion of uterus	1
Diseased tonsils	94	Retroversion of uterus	15
Dysmenorrhea	7	Ringworm infection	1
Endocarditis	1	Rhinitis (atrophic)	2
Epilepsy	1	Rhinitis (chronic)	37
Erosion of cervix	1	Sinusitis	21
Gastric ulcer	2	Sprue	1
Gingivitis	6	Strabismus	3
Goitre (simple)	2	Tapeworm infection	2
Hemorrhoids	17	Tenia versicola	1
Hernia	9	Tumor (breast)	1
Hookworm	14	Ulcer (groin)	1
Hypertension	7	Undescended testicle	1
Icthyosis	2	Uterine fibroid	1
Infantile paralysis (post)	1	Varicocele	2
Laceration of cervix	2	Varicose veins	5
Laceration of perineum	12	Yeast infection of lungs	1

OCCUPATIONS

Advertising	1	Laundry superintendent	1
Auditor	1	Laundry	1
Baker	2	Lawyer	1
Banking	2	Lineman	1
Barber	8	Lumberman	1
Blacksmith	1	Machinist	3
Boarding house	1	Merchant	4
Boiler maker	1	Messenger boy	1
Bookkeeper	8	Mill work	78
Bridgeman	1	Musician	2
Cafe operator	1	Nurses (registered)	3
Cabinet maker	1	Nurses	17
Carpenter	2	Orderly (hospital)	1
Cashier	2	Painter	4
Civil engineer	1	Paper hanger	1
Clerical	10	Physician	1
Clerk	13	Post office clerk	1
Clock repairer	1	Printer	3
Contractor	1	Prize fighter	1
Dentist	1	Prohibition investigator	1
Dressmaker	3	Railroad clerk	1
Drug clerk	6	Real estate	1
Dry cleaner	1	Saleslady	1
Electrical engineer	4	Salesman	14
Engineer	5	Shoemaker	1
Farmer	45	Sign painter	1
Filling station operator	2	Steam fitting	2
Fireman	1	Stenographer	11
Foreman	1	Students	51
Gas cell builder	1	Superintendent quarry	1
Governess	1	Teacher	19
Highway commissioner	1	Telegraph operator	1
Home economics	1	Telephone operator	2
Housewives	183	Tobacco buyer	1
Insurance salesman	3	Train dispatcher	1
Jeweler	1	Truck driver	1
Laboratory technician	1	Waitress	1
Laborer	5	Waiter	2

PATIENTS EXAMINED IN SANATORIUM CLINIC FOR DIAGNOSIS AND CONSULTATION

July 1, 1932-June 30, 1934

	White		Colored		Prison		Total	
	32-33	33-34	32-33	33-34	32-33	33-34	32-33	33-34
July.....	184	261	15	21	12	16	211	298
August.....	220	261	12	12	22	14	254	287
September.....	166	244	16	21	22	16	204	281
October.....	218	189	10	23	10	13	238	225
November.....	190	166	26	19	12	16	228	201
December.....	113	187	23	22	12	12	148	221
January.....	139	144	15	49	12	16	166	209
February.....	112	141	17	20	15	15	144	176
March.....	169	217	12	33	9	17	190	267
April.....	200	202	16	14	8	15	224	231
May.....	206	219	18	17	17	18	241	254
June.....	253	240	38	34	11	12	302	286
Total.....	2,170	2,471	218	285	162	180	2,550	2,936

CLASSIFICATION

Positive diagnosis.....	280	352	59	92	45	46	384	490
Negative diagnosis.....	1,097	1,174	131	136	97	109	1,325	1,419
Re-examination.....	793	945	28	57	20	25	841	1,027
Total.....	2,170	2,471	218	285	162	180	2,550	2,936

SUMMARY OF MEDICAL REPORT

July 1, 1932-July 1, 1934

	1932-33	1933-34	Total
Patients admitted:			
Minimal.....	23	39	62
Moderately advanced.....	120	109	229
Far advanced.....	130	158	288
Extra-pulmonary.....	0	1	1
Childhood tuberculosis.....	8	6	14
Not tuberculous.....	35	29	64
Not classified.....	9	11	20
Total.....	325	353	678
Patients discharged:			
Apparently arrested.....	20	29	49
Quiescent.....	58	58	116
Improved.....	123	177	300
Unimproved.....	43	44	87
Died.....	6	4	10
Total.....	250	312	562

REPORT OF X-RAY LABORATORY

July 1, 1932-June 30, 1934

	White	Colored	Prison	Total
Stereoroentgenograms of chest, Sanatorium patients	681	238	94	1,013
Stereoroentgenograms of chest, Sanatorium clinic patients ..	1,113	72	15	1,200
Stereoroentgenograms of chest, Adult clinics	101	0	0	101
Double Roentgenograms of chest, Sanatorium patients	112	21	0	133
Double Roentgenograms of chest, Sanatorium clinic patients ..	717	78	0	795
Double Roentgenograms of chest, Children's clinics	3,828	1,090	0	4,918
Single Roentgenograms of chest, Sanatorium patients	1,646	201	127	1,974
Single Roentgenograms of chest, Sanatorium clinic patients ..	877	120	104	1,101
Single Roentgenograms of chest, Adult clinic patients	1,884	467	0	2,351
Single Roentgenograms of chest, Children's clinics	551	0	0	551
Miscellaneous X-rays	491	38	10	539
Totals	12,001	2,325	350	14,676
Treatments	139	14	13	166

LABORATORY REPORT

	White	Colored	Prison	Total
Sputanalyses:				
Culture	1	0	0	1
Micros	5,958	1,564	594	8,116
Chem	1,096	353	95	1,544
Total	7,054	1,917	689	9,660
Urinalyses:				
Micros	1,847	332	124	2,303
Chem	2,443	379	124	2,946
Total	4,290	711	248	5,249
Blood:				
W. B. C.	1,063	308	128	1,499
R. B. C.	1,059	289	121	1,469
Hemoglobin ..	1,061	287	121	1,469
C. I.	1,055	287	121	1,463
Differential count	1,145	304	128	1,577
Kahn test	246	88	24	358
Wassermann ..	708	358	112	1,178
Malaria	31	0	1	32
Urea	50	11	0	61
Widal	23	0	0	23
Sedimentation ..	1,593	11	0	1,604
Undulant fever ..	15	1	0	16
Culture	3	1	0	4
Sugar	21	1	0	22
Kline	47	7	3	57
Weil Felix	2	0	0	2
Total	8,122	1,953	759	10,834

LABORATORY REPORT—Continued

	White	Colored	Prison	Total
Feces.....	934	261	93	1,288
Phthalein.....	29	5	0	34
Gastric.....	68	11	0	79
Pleural fluid.....	146	35	9	190
B. M. R.....	53	7	0	60
Bacteriological.....	75	77	8	160
Spinal fluid.....	1	2	4	7
Abdominal fluid.....	3	0	0	3
Miscellaneous.....	0	1	0	1
Total.....	1,309	399	114	1,822

Water:

For coli.....	12
Bacterial count.....	12
Total.....	24

Milk:

For coli.....	10
Bacterial count.....	10
Total.....	20

Total examinations.....	10,834
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ORGANIZATIONS SUPPORTING AND ASSISTING IN THE SUPPORT OF PATIENTS

American Red Cross, Hertford	1
Associated Charities, Raleigh	1
Associated Charities, Winston-Salem	1
Auxiliary Bed, Medical Society	2
Board of Charities and Public Welfare, Wilkesboro	1
Board of County Commissioners, Burke	1
Board of County Commissioners, Cartaret	1
Board of County Commissioners, Cherokee	1
Board of County Commissioners, Cleveland	3
Board of County Commissioners, Columbus	1
Board of County Commissioners, Currituck	2
Board of County Commissioners, Duplin	6
Board of County Commissioners, Edgecombe	1
Board of County Commissioners, Forsyth	1
Board of County Commissioners, Gaston	39
Board of County Commissioners, Halifax	5
Board of County Commissioners, Henderson	1
Board of County Commissioners, Hyde	2
Board of County Commissioners, Johnston	1
Board of County Commissioners, Lee	2
Board of County Commissioners, Lenoir	1
Board of County Commissioners, Lincoln	5
Board of County Commissioners, New Hanover	1
Board of County Commissioners, Onslow	1
Board of County Commissioners, Orange	1
Board of County Commissioners, Pasquotank	3
Board of County Commissioners, Rowan	4
Board of County Commissioners, Sampson	2
Board of County Commissioners, Scotland	1
Board of County Commissioners, Stanly	14
Board of County Commissioners, Surry	4
Board of County Commissioners, Union	3
Board of County Commissioners, Yadkin	1
Board of County Commissioners, Yancey	1
Charity Organization Society, Greensboro	1
Charity Organization Society, Goldsboro	11
City Relief Department, Raleigh	1
Community Chest, Reidsville	1
Community Service League, Kinston	5
Junior Order, Four Oaks	1
Kiwanis Tuberculosis Clinic, Rocky Mount	2
Mansfield Mills, Inc., Lumberton	1
Masonic Orphanage, Oxford	1
Methodist Orphanage, Raleigh	1
Mission of the Good Samaritan, Asheville	1
Mutual Aid Association, Draper	2
Parent-Teachers' Association, Albemarle	1
Presbyterian Orphanage, Barium Springs	1
Public Welfare, Asheboro	2
Public Welfare, Asheville	9
Public Welfare, Burlington	6
Public Welfare, Chapel Hill	1
Public Welfare, Clinton	2
Public Welfare, Cramerton	1
Public Welfare, Concord	4
Public Welfare, Dodson	1
Public Welfare, Durham	32
Public Welfare, Goldsboro	12
Public Welfare, Greenville	12
Public Welfare, Hendersonville	1
Public Welfare, Lexington	8

Public Welfare, Lillington	9
Public Welfare, Lincolnton	1
Public Welfare, Lumberton	2
Public Welfare, Mocksville	1
Public Welfare, Morganton	1
Public Welfare, Murphy	1
Public Welfare, Nashville	4
Public Welfare, New Bern	1
Public Welfare, Newton	5
Public Welfare, Oxford	4
Public Welfare, Pinehurst	1
Public Welfare, Pittsboro	4
Public Welfare, Raleigh	2
Public Welfare, Reidsville	8
Public Welfare, Rockingham	8
Public Welfare, Rutherfordton	2
Public Welfare, Salisbury	4
Public Welfare, Sanford	1
Public Welfare, Scotland Neck	1
Public Welfare, Smithfield	2
Public Welfare, Sylva	1
Public Welfare, Tarboro	2
Public Welfare, Trenton	1
Public Welfare, Warrenton	2
Public Welfare, Washington	4
Public Welfare, Williamston	2
Public Welfare, Wilmington	3
Public Welfare, Wilson	12
Public Welfare, Windsor	1
Public Welfare, Winton	1
Public Welfare, Yanceyville	3
Relief Fund, Cramerton	1
Relief Fund, Fayetteville	1
Relief Fund, Germantown	4
Relief Fund, Jacksonville	2
Relief Fund, Marion	2
Relief Fund, Raleigh	1
Relief Fund, Yadkinville	3
Roanoke Mills, Roanoke Rapids	1
Social Service Exchange, Winston-Salem	1
Tuberculosis Association, Chapel Hill	1
Tuberculosis Association, Concord	2
Tuberculosis Association, North Wilkesboro	1
United Daughters of the Confederacy	2

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Third Grade Whiteville School, Whiteville, N. C.

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CHILDREN'S DIVISION

MEDICAL REPORT

Statistical

	1932-1933	1933-1934	Total
Number of patients to be reported on (discharged).....	51	54	105
Number not tuberculous.....	2	3	5
Number of patients in Sanatorium July 1.....	39	37	76
Total number of patients treated.....	92	94	186
Hospital days.....	13,774	13,408	27,182

SUMMARY MEDICAL REPORT

	1932-1933	1933-1934	Total
Patients admitted:			
Adult type tuberculosis.....	8	11	19
	1932-1933	1933-1934	
Minimal.....	7	7	
Moderately advanced.....	1	4	
Childhood type.....	51	41	92
Not tuberculous.....	1	2	3
Not classified.....	1	1	2
Total.....	61	55	116
Patients discharged:			
Apparently healed.....	40	47	87
Apparently inactive.....	7	5	12
Improved.....	3	2	5
Unimproved.....	1	0	1
Died.....	0	0	0
Total.....	51	54	105

SEX AND AGE

	1932-1933	1933:1934	Total
Sex:			
Male.....	16	32	48
Female.....	35	22	57
Total.....	51	54	105
Age:			
15 month to 9 years.....	21	31	52
10 to 17 years.....	30	23	53
Total.....	51	54	105

TUBERCULOUS COMPLICATIONS

Adenitis (cervical)	1	Empyema	1
Adenitis (tracheobronchial)	11	Pleurisy with effusion	2

NON-TUBERCULOUS COMPLICATIONS

Asthma (bronchial)	1	Hookworm disease	4
Bronchitis	2	Impetigo	2
Bronchopneumonia	2	Otitis media	3
Carious teeth	7	Pneumonitis	1
Dermatitis	1	Secondary anemia	1
Diseased tonsils	30	Sinusitis	1
Endocervicitis	1	Rhinitis (chronic)	1
Furuncle	1	Round worm infection	1

COLORED DIVISION

MEDICAL REPORT

Statistical

	1932-1933	1933-1934	Total
Number of patients to be reported on (discharged).....	66	106	172
Number not classified.....	0	1	1
Number not tuberculous.....	10	16	26
Number of patients in Sanatorium July 1.....	85	102	187
Total number of patients treated.....	161	225	386
Hospital days.....	23,124	33,884	57,008

PATIENTS WHO STAYED LESS THAN NINETY DAYS

1932-1934

CONDITION ON ADMISSION				CONDITION ON DISCHARGE									
				Apparently Arrested		Quiescent		Improved		Unimproved		Died	
				1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934
Minimal.....						1							
Moderately Advanced.....								1 2	1	2	1		
Far Advanced.....													
Total.....				0	0	1	0	7	2	10	13	5	5
Total number of days.....				Average stay.....		1932-33 39.47 1933-34 47		Shortest stay.....		1932-33 10 1933-34 14			
Number gained weight: 1932-33 13: 1933-34 10				Number lost weight: 1932-33 8: 1933-34 6									
Average gain.....				1932-33 7.8 1933-34 6		Average loss.....		1932-33 6.6 1933-33 3.38					
Stationary.....				0 2		Not weighed.....		2		2			

PATIENTS WHO STAYED NINETY DAYS OR OVER

1932-1934

CONDITION ON ADMISSION				CONDITION ON DISCHARGE									
				Apparently Arrested		Quiescent		Improved		Unimproved		Died	
				1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934	1932-1933	1933-1934
Minimal.....				1	4	1	1						
Moderately Advanced.....				2		1	4	2	6				2
						1	9	1					
Far Advanced.....							1						
							5	5	12	2	7	3	0
Childhood Type.....				3	8		2	7	10	2	6	8	7
Extra-pulmonary.....							2	2		1			
Total.....				6	12	4	24	17	28	5	13	11	9
Total number of days.....				Average stay.....		1932-33 240.35		1933-34 296.48		Longest stay.....		1932-33 608	
												1933-34 988	
Number gained weight.....				1932-33 32		1933-34 67		Number lost weight.....				1932-33 7	
												1933-34 12	
Average gain.....				1932-33 16.08		1933-34 20.18		Average loss.....				1932-33 19.07	
Stationary.....				0		0		Not weighed.....				1933-34 4	
												1933-34 7	

HISTORY OF HEMORRHAGE

Negative.....	46	67	1932-33	1933-34
Positive.....	11	26		
{ Previous only.....	3	5		
{ Previous and during residence.....	6	8		
{ During residence only.....				

RESULTS OF SPUTUM EXAMINATION

Negative or no sputum.....	24	47
Positive.....	39	55
{ On admission.....	23	33
During residence.....	21	20
{ On discharge.....	21	20

SEX, AGE AND CIVIL CONDITION

[illegible]

OCCUPATIONS

1932-1934

Bakery	1	Maids	2
Brick mason	1	Mechanic	1
Construction work	1	Nurses	1
Cooks	8	Physician	1
Dairy	1	Porter	2
Delivery boy	1	Salesgirl	1
Elevator operator	1	Students	46
Farming	34	Student nurse	1
Factory laborer	10	Tailor	1
Housework	33	Teachers	8
Janitor	3	Undertaker	1
Laborers	11	Waiter	2

TUBERCULOUS COMPLICATIONS

1932-1934

Adenitis (cervical)	6	Epididymitis	1
Adenitis (inguinal)	1	Laryngitis	42
Adenitis (tracheobronchial)	5	Meningitis	1
Anal fistula	5	Peritonitis	8
Ascites	1	Pleurisy with effusion	12
Empyema	2	Sinus (chest wall)	1
Enteritis	20	Spontaneous pneumothorax	1

NON-TUBERCULOUS COMPLICATIONS

Acne vulgaris	1	Hypertension	2
Adenitis	5	Hyperthyroidism	1
Anal fissure	1	Icthyosis	1
Arterio-sclerosis	1	Laceration of cervix	1
Asthma (bronchial)	1	Laceration of perineum	3
Carious teeth	64	Laryngitis	2
Cervicitis (uterine)	6	Lues	24
Cystitis	4	Mental deficiency	4
Cystocele	4	Mitral regurgitation	1
Diseased tonsils	35	Myocarditis	1
Endocervicitis	24	Nephritis	1
Endometritis	2	Osteomyelitis	1
Epididymitis	1	Pregnancy	3
Epilepsy	1	Pyorrhea	36
Erosion of cervix	1	Retroflexion of uterus	3
Gingivitis	6	Retroversion of uterus	7
Goitre	1	Rhinitis (chronic)	8
Hemorrhoids	9	Salpingitis	8
Hernia	1	Tumor of breast (benign)	1
Hookworm	1	Uterine fibroid	1

SUMMARY MEDICAL REPORT

	1932-1933	1933-1934	Total
Patients admitted:			
Minimal	5	5	10
Moderately advanced	30	26	56
Far advanced	72	82	154
Childhood tuberculosis	11	12	23
Extra-pulmonary	3	0	3
Not tuberculous	7	13	20
Not classified	5	2	7
Total	133	140	273
Patients discharged:			
Apparently arrested	6	12	18
Quiescent	5	24	29
Improved	24	30	54
Unimproved	15	26	41
Died	16	14	30
Total	66	106	172

ORGANIZATIONS SUPPORTING AND ASSISTING IN THE SUPPORT OF PATIENTS

Associated Charities, Raleigh	2
Associated Charities, Rocky Mount	1
Board of County Commissioners, Bladen	4
Board of County Commissioners, Brunswick	4
Board of County Commissioners, Burke	1
Board of County Commissioners, Currituck	9
Board of County Commissioners, Forsyth	9
Board of County Commissioners, Gaston	3
Board of County Commissioners, Greene	6
Board of County Commissioners, Hoke	11
Board of County Commissioners, Lee	1
Board of County Commissioners, Pasquotank	3
Board of County Commissioners, Rockingham	1
Board of County Commissioners, Scotland	2
Board of County Commissioners, Stanly	1
Board of County Commissioners, Washington	1
Board of County Commissioners, Yadkin	1
Charity Organization Society, Goldsboro	5
City of Winston-Salem	2
Family Service Agency, Greensboro	5
Moore County Health and Welfare Association, Mrs. Frances Keating, President	12
Oxford Orphanage	2
Public Welfare, Asheville	2
Public Welfare, Burlington	2
Public Welfare, Chapel Hill	2
Public Welfare, Clinton	1
Public Welfare, Concord	5
Public Welfare, Durham	23
Public Welfare, Goldsboro	2
Public Welfare, Greenville	3
Public Welfare, Henderson	1
Public Welfare, Kenansville	3

Public Welfare, Kinston	1
Public Welfare, Lexington	1
Public Welfare, Lillington	4
Public Welfare, Louisburg	3
Public Welfare, Lumberton	5
Public Welfare, Mocksville	1
Public Welfare, Newton	1
Public Welfare, Oxford	3
Public Welfare, Raleigh	2
Public Welfare, Reidsville	2
Public Welfare, Rockingham	7
Public Welfare, Salisbury	1
Public Welfare, Smithfield	1
Public Welfare, Wadesboro	10
Public Welfare, Washington	2
Public Welfare, Williamston	1
Public Welfare, Wilson	3
Public Welfare, Yanceyville	1
Tuberculosis Association, Bayboro	1
Tuberculosis Association, Chapel Hill	1
Woman's Club, Oxford	1
Young Woman's Business Club, Roxboro	1

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